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J. M. Schaeberle.

THE BINARY STAR β 733 (85 PEGASI).

A recent observation of this most interesting of Mr. Burnham's double stars indicates that the computed period of 22.6 years (which I deduced from his measures extending from 1878 to 1888) will be somewhat in excess of the true time of revolution, as can be seen from an inspection of the following residuals, which involve all the observations at hand. Each residual is found by subtracting the value given by my orbit (see *Astronomical Journal*, No. 248) from that given by direct measurement. All the observations were made by Mr. Burnham excepting the last, which was made by myself. Since 1878 the position-angle of the companion has increased 255°.

Date.	Obs.	Comp.	No. of Obs.
	ΔP	Δs	
1878 73	− 6°.3	+ 0″.06	3 nights.
1879.46	− 2 .6	+ 0 .08	5 nights.
1880.59	+ 1 .7	− 0 .06	5 nights.
1881.54	+ 7 .2	− 0 .10	1 night.
1883.75	− 7 .2	....	1 night. (rough)
1888.69	− 1 .6	+ 0 .04	5 nights.
1889.59	+ 2 .1	− 0 .09	4 nights.
1890.55	+ 1 .6	− 0 .23	4 nights.
1891.56	+ 9 .3	− 0 .18	3 nights.
1893.65	+12 .6	+ 0 .10	3 nights.

J. M. S.